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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,425	11/04/2005	Vito Alanzo	LSP-1011US	3149
⁸⁷⁶²⁷ Mossman, Kum	7590 07/15/200 ar & Tvler	EXAMINER		
11200 Westheir		GILLESPIE, BENJAMIN		
Suite 900 Houston, TX 77	7042		ART UNIT	PAPER NUMBER
			1796	
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			07/15/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applio	cation No.	Applicant(s)		
Office Action Summary		10/53	7,425	ALANZO ET AL.		
		Exam	iner	Art Unit		
			AMIN J. GILLESPIE	1796		
T Period for F	The MAILING DATE of this commu Reply	nication appears on	the cover sheet with	h the correspondence a	ddress	
WHICHE - Extensio after SIX - If NO per - Failure to Any reply	RTENED STATUTORY PERIOD F EVER IS LONGER, FROM THE IN ns of time may be available under the provision: (6) MONTHS from the mailing date of this comi- riod for reply is specified above, the maximum so to reply within the set or extended period for reply or received by the Office later than three months atent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF s of 37 CFR 1.136(a). In n munication. tatutory period will apply a y will, by statute, cause the	THIS COMMUNIC to event, however, may a rep and will expire SIX (6) MONT an application to become ABA	ATION. ply be timely filed HS from the mailing date of this of the control of th		
Status						
2a)⊠ Tr 3)⊡ Si	esponsive to communication(s) filentials action is FINAL . Ince this application is in condition accordance with the pract	2b)∏ This action for allowance exc	is non-final. ept for formal matte	-	e merits is	
Disposition	of Claims					
4a 5)∭ CI 6)⊠ CI 7)∭ CI	aim(s) <u>1-19</u> is/are pending in the above claim(s) is/a aim(s) is/a aim(s) is/are allowed. aim(s) <u>1-19</u> is/are rejected. aim(s) is/are objected to. aim(s) are subject to restri	are withdrawn from				
	e specification is objected to by the	ne Evaminer				
10)□ Th Ar Re	e drawing(s) filed on is/are plicant may not request that any objection that any objection is detected to by the control of the control	: a) ☐ accepted o ection to the drawing g the correction is re	(s) be held in abeyand quired if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 C	` '	
Priority und	ler 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice o 3) Informat	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (l ion Disclosure Statement(s) (PTO/SB/08) o(s)/Mail Date	PTO-948)	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application 		

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Note

- 1. The claims filed 5/8/2009 contain new limitations not available for consideration when the previous non-final rejection was mailed 8/20/2008 specifically that equivalent ratio between the polyisocyanate and the non-ionic alkyloxylated diol is such that there is 3-10 wt% of free isocyanate in the resulting blocked polyisocyanate. Therefore, although the instant rejection contains new grounds of rejection regarding claims 1-5 and 15-18, it is still proper to make the instant action FINAL since said grounds were necessitated by applicants' amendment.
- 2. Additionally the language of claim 1: "non-ionic **alkyloxylated** diol is such that the percentage of free isocyanate...." appears to have misspelled "alkoxylated".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Obviousness Rejection I

- 3. Claims 1-3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baumbach et al ('536) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867).
- 4. **Regarding claims 1-3 and 5:** The rejection has been previously set forth in paragraphs 2-4 of the non-final rejection mailed 8/20/2008, and is herein incorporated by reference.

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5. Regarding the newly present limitation of claim 1, which requires an NCO content between 3 and 10 wt%, Baumbach et al teach NCO contents in examples 1 and 2 of 6.85 wt% and 8.42 wt%, which coincide with the claimed range.

Obviousness Rejection II

- 6. Claims 4 and 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baumbach et al ('536) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867) in further view of Reiff et al ('737).
- 7. **Regarding claims 4 and 15-19:** The rejection has been previously set forth in paragraphs 5-9 of the non-final rejection mailed 8/20/2008, and is herein incorporated by reference.

Obviousness Rejection III

- 8. Claims 1-3, 5-7, 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonderko et al (2002/0061999) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867).
- 9. **Regarding claims 1-3, 5-7, and 11-14:** The rejection has been previously set forth in paragraphs 10-12 of the non-final rejection mailed 8/20/2008, and is herein incorporated by reference.
- 10. Regarding the newly present limitation of claim 1, which requires an NCO content between 3 and 10 wt%, Jonderko et al teach NCO contents in examples 1 and 2 of 7.8 and 7.7 wt% which coincide with the claimed range.

Obviousness Rejection IV

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11. **Claims 4, 8-10 and 14-19** are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonderko et al (2002/0061999) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867) and in further view of Reiff et al ('737).

12. **Regarding claims 4, 8-10, and 14-19:** The rejection has been previously set forth in paragraphs 13-17 of the non-final rejection mailed 8/20/2008, and is herein incorporated by reference.

Response to Arguments

- 13. Applicant's arguments with respect to the rejection of claims 1-19 as being anticipated by Yao et al '518) have been considered and are persuasive. The rejection has been withdrawn.
- 14. Applicant's arguments with respect to the rejection of claims 6, 7, and 11-14 as being unpatentable over Baumbach et al ('536) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867) have been considered and are persuasive. The rejection has been withdrawn.
- 15. Applicant's arguments with respect to the rejection of claims 8-10 as being unpatentable over Baumbach et al ('536) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867) in further view of Reiff et al ('737) have been considered and are persuasive. The rejection has been withdrawn.
- 16. Applicant's arguments with respect to the rejection of
 - i) Claims 1-3 and 5 as being unpatentable over Baumbach et al ('536) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867),

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ii) Claims 4 and 15-19 as being unpatentable over Baumbach et al ('536) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867) in further view of Reiff et al ('737),

- iii) Claims 1-3, 5-7, 11-14 as being unpatentable over Jonderko et al (2002/0061999) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867), and
- iv) Claims 4, 8-10 and 14-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonderko et al (2002/0061999) in view of Buter et al (WO 97/19120) or in the alternative Ishiyama et al ('867) and in further view of Reiff et al ('737)
- 17. Have been fully considered but are not persuasive.
- 18. Regarding issues i) and ii), applicants argue that the claimed invention is not rendered obvious by the prior art because Baumbach et al fail to teach an equivalent ratio of free NCO to blocking compound that is greater than 1. While this is noted, applicants are reminded that claim 1 is not limited to this ratio and therefore applicants' remarks are not persuasive since they are not commensurate in scope with the rejected claims.
- 19. Additionally, applicants argue that the claimed invention is not rendered obvious by the prior art since the claims do not list hydrazide reactant which is required by Baumbach et al. While this position has been noted, as discussed in paragraph 4, the non-ionic blocked polyisocyanate of Baumbach et al still contains all of the listed reactants in amounts that satisfy the claimed NCO content, and the currently claimed invention does not exclude hydrazide.

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20. Regarding issues iii) and iv), applicants argue that the claimed invention is not rendered obvious by the prior art because the relied upon hydrophilic polyether of Buter et al is disclosed "in a list, all components of which are defined as 'non limiting examples of suitable compounds'…" and therefore one would not be motivated to glean just the relied upon polyether.

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- 21. In response, it is noted page 9, lines 15+ of Buter et al teach numerous hydrophilic polyethers, however as discussed in paragraph 3 of the non-final rejection mailed 8/20/2008 herein incorporated by reference, Buter et al exemplify suitable polyethers consisting of Tegomer D-3123, D-3409, and D-3403. These polyethers are identical to the hydrophilic polyether used by applicants. Therefore contrary to applicants' assertions one would be motivated to arrive at the claimed hydrophilic polyether since it is exemplified by Buter et al.
- 22. Applicants also argue that the claimed invention is patentable over the prior art because both Buter et al and Ishiyama et al require both ionic and non-ionic groups in order to render their respective polyurethane hydrophilic.
- 23. In response, applicants are reminded that the claimed invention has been rejected over Jonderko et al *in view of* Buter et al/Ishiyama et al and **NOT** Buter et al/Ishiyama et al in view of Jonderko et al. While the overall compositions of the secondary teachings require ionic groups, said secondary teachings were not relied upon for their overall composition. Instead said secondary teachings were merely relied upon for specific examples of suitable non-ionic hydrophilicizing compounds that satisfy the requirements set forth in paragraphs 24 of Jonderko et al.

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24. What's more, Jonderko et al explicitly teach that said water-dispersible polyisocyanate may be produced using *only* non-ionic hydrophilicizing agents, and therefore one of ordinary skill would have a reasonable expectation of success in rendered the polyisocyanate of Jonderko et al hydrophilic using only the relied upon polyether of Buter et al and Ishiyama et al since said polyether satisfies the requirements of Jonderko et al set forth in paragraph 24 and Jonderko et al teach ionic groups may be omitted.

Conclusion

- 25. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 26. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 27. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN J. GILLESPIE whose telephone number is (571)272-2472. The examiner can normally be reached on 8am-5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be

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reached on 571-272-1119. The fax phone number for the organization where this application or

proceeding is assigned is 571-273-8300.

28. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Benjamin J Gillespie/ Examiner, Art Unit 1796

/Vasu Jagannathan/ Supervisory Patent Examiner, Art Unit 1796